

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-2 (cancelled).

3 (previously submitted). A method of analyzing a digital image channel comprising the steps of:

- a) providing a digital image channel;
- b) extracting a signal from the digital image channel; and
- c) using the extracted signal to determine whether the digital image channel is an interpolated digital image channel or a non-interpolated digital image channel;

wherein the step b) of extracting a signal comprises extracting a signal related to differences between the values of neighboring pixels of the digital image channel.

4 (previously submitted). A method of analyzing a digital image channel comprising the steps of:

- a) providing a digital image channel;
- b) extracting a signal from the digital image channel; and
- c) using the extracted signal to determine whether the digital image channel is an interpolated digital image channel or a non-interpolated digital image channel;

wherein the step c) of using the extracted signal comprises determining the periodicity of the extracted signal by computing a Fourier Transform signal of the extracted signal and looking for peaks in the Fourier Transform signal.

5-7 (cancelled).

8 (previously submitted). An image processing system for determining the interpolation attributes of a digital image channel, said system comprising:

means for extracting a signal from the digital image channel; and  
means for using the extracted signal to determine whether the digital image channel is an interpolated digital image channel or a non-interpolated digital image channel;

wherein said means for extracting a signal comprises means for extracting a signal related to differences between the values of neighboring pixels of the digital image channel.

9 (previously submitted). An image processing system for determining the interpolation attributes of a digital image channel, said system comprising:

means for extracting a signal from the digital image channel; and  
means for using the extracted signal to determine whether the digital image channel is an interpolated digital image channel or a non-interpolated digital image channel;

wherein said means for using the extracted signal comprises means for determining the periodicity of the extracted signal by computing a Fourier Transform signal of the extracted signal and looking for peaks in the Fourier Transform signal.

10-12 (cancelled).

13 (currently amended). ~~The method as claimed in claim 1~~ A method of analyzing a digital image channel comprising the steps of:

extracting a signal from the digital image channel; and  
using the extracted signal to determine whether the digital image channel is an interpolated digital image channel or a non-interpolated digital image channel;

wherein said extracting a signal comprises extracting a signal related to differences between the values of neighboring pixels of the digital image channel.

14 (currently amended). ~~The method as claimed in claim 1~~ A method of analyzing a digital image channel comprising the steps of:  
extracting a signal from the digital image channel; and  
using the extracted signal to determine whether the digital image channel is an interpolated digital image channel or a non-interpolated digital image channel;

wherein said using the extracted signal comprises determining the periodicity of the extracted signal by computing a Fourier Transform signal of the extracted signal and looking for peaks in the Fourier Transform signal.

15-20 (cancelled).